

Global AI Data Center Server PSUs Market Growth 2026-2032

<https://marketpublishers.com/r/GEAA18D323C3EN.html>

Date: October 2026

Pages: 145

Price: US\$ 3,660.00 (Single User License)

ID: GEAA18D323C3EN

Abstracts

The global AI Data Center Server PSUs market size is predicted to grow from US\$ 2088 million in 2025 to US\$ 7911 million in 2032; it is expected to grow at a CAGR of 21.4% from 2026 to 2032.

In 2024, global AI Data Center Server PSUs capacity 2,800 k Units, sales reached approximately 2,607.37 k Units, with an average market price of around 527 USD/Unit, industrial gross margin 31%.

The AI Data Center Server PSUs market is in a hyper-growth cycle, expanding from a niche component into a rack-scale bottleneck technology. Market revenue climbed from ~US\$0.30B in 2022 to ~US\$1.37B in 2024, and is projected to reach ~US\$6.57B by 2031F, implying a ~21% CAGR for 2025E–2031F; shipments follow a similar ~21% CAGR, rising from ~4.13M units in 2025E to ~12.85M units in 2031F. This trajectory aligns with the sharp step-up in AI rack power density and accelerator intensity, which is structurally lifting PSU content per server and per rack.

Competition is concentrated at the high end but still dynamic as China-based suppliers scale quickly. In 2024, the top five vendors—Delta Electronics, LITEON Technology, Acbel Polytech, Chicony Power Technology, and Advanced Energy—capture ~74% of revenue; Delta Electronics alone contributes ~41%, reflecting clear leadership in high-power redundant modules. By 2025E, top-five share eases to ~69% as fast-growing followers broaden the supply base, suggesting that scale, qualification speed, and co-design capability with AI OEMs are becoming decisive differentiators.

Regionally, demand is anchored in Asia-Pacific and North America, with Asia-Pacific gaining further share through 2031. In 2024 unit demand splits roughly as Asia-Pacific

~45%, North America ~36%, and Europe ~15%; by 2031F, Asia-Pacific is expected to exceed ~51% of global shipments while North America moderates to ~30%. The shift mirrors where AI server manufacturing clusters and hyperscale deployments are densifying fastest, reinforcing a dual-hub demand pattern.

Power-rating mix shows a clear migration toward mid- and high-power modules, while average selling prices remain broadly stable. The 3–5.5 kW class dominates volumes through the forecast window, supported by mainstream 8-GPU and multi-accelerator nodes, whereas >5.5 kW modules are the fastest-growing segment as next-gen servers push higher nameplate and transient loads. Despite the mix upgrade, blended ASP trends only slightly down (roughly US\$540 per module in 2022 to ~US\$510 by 2031F) as rapid scale-up, yield learning, and platform standardization offset higher specs.

By application, GPU servers are the absolute demand core and will remain so even as ASIC server volumes rise. GPU servers account for ~86% of units and ~90% of revenue in 2024, and still about ~85% of units / ~89% of revenue by 2031F, underlining that training-centric clusters drive the PSU market's center of gravity. ASIC servers grow steadily off a smaller base, reflecting expanding inference fleets and domain-specific accelerators, while FPGA demand stays specialized.

Looking ahead, the market is being reshaped by higher-voltage distribution, higher-density shelves, and a rapid move to ultra-high efficiency. Industry roadmaps are converging on 48 V rack distribution and 5.5 kW-class (and above) hot-swap modules/power shelves to reduce copper loss and simplify serviceability at 30–100 kW racks. Efficiency requirements are escalating from 80 PLUS Titanium toward the new Ruby tier, pushing designs toward GaN/SiC power stages, tighter transient response, and digital telemetry for power capping and predictive maintenance. For suppliers, winning strategies will center on Ruby-class efficiency, thermal-mechanical co-design for liquid-cooled racks, and early platform lock-ins with leading AI server OEMs.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “AI Data Center Server PSUs Industry Forecast” looks at past sales and reviews total world AI Data Center Server PSUs sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Data Center Server PSUs sales for 2026 through 2032. With AI Data Center Server PSUs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Data Center Server

PSUs industry.

This Insight Report provides a comprehensive analysis of the global AI Data Center Server PSUs landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI Data Center Server PSUs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Data Center Server PSUs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Data Center Server PSUs and breaks down the forecast by Power, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Data Center Server PSUs.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Data Center Server PSUs market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Power:

Below 3 kW

3-5.5 kW

Above 5.5 kW

Segmentation by Certification:

Titanium Grade

Platinum Grade

Segmentation by Efficiency:

90% Efficiency

92% Efficiency

94% Efficiency

96% Efficiency

98% Efficiency

Others

Segmentation by Application:

GPU Server

ASIC Server

FPGA Server

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Delta Electronics

LITEON Technology

Acbel Polytech

Chicony Power Technology

Advanced Energy

Shenzhen Megmeet Electrical

Shenzhen Honor Electronic

Aohai Technology

China Greatwall Technology

FSP Group

Phihong

Murata

Shenzhen Gospower

Zippy Technology

SilverStone

Beijing Dynamic Power

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Data Center Server PSUs market?

What factors are driving AI Data Center Server PSUs market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AI Data Center Server PSUs market opportunities vary by end market size?

How does AI Data Center Server PSUs break out by Power, by Application?

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